

Rev Key p167 -

1-25, 30, 32, 34-40 p784 #16

1. alternate

23. $\overleftrightarrow{AB} \quad m = \frac{1-1}{-4-3} = \frac{2}{-7}$

2. \perp

Neither

3. parallel

$\overleftrightarrow{CD} \quad m = \frac{2-9}{2-0} = \frac{-7}{2}$

4. transversal

5. alt. exterior

24. $\overleftrightarrow{AB} \quad m = \frac{2-2}{6-2} = \frac{4}{4} = 1$

6. \cong

$\overleftrightarrow{CD} \quad m = \frac{-4-2}{-1-5} = \frac{-6}{-6} = 1$

Parallel

8. corr.

9. alt. ext

25. $\overleftrightarrow{AB} \quad m = \frac{-3-5}{1-4} = \frac{-8}{-3} = \frac{8}{3}$

10. s-side int

$\overleftrightarrow{CD} \quad m = \frac{2-1}{-7-1} = \frac{3}{-8}$

\perp

11. corr

12. alt int

$(2,5) (-2,-1)$

13. s-side int

30. $m = \frac{5-1}{2-2} = \frac{6}{4} = \frac{3}{2}$

14. alt ext

$y = \frac{3}{2}x + b$

15. alt int

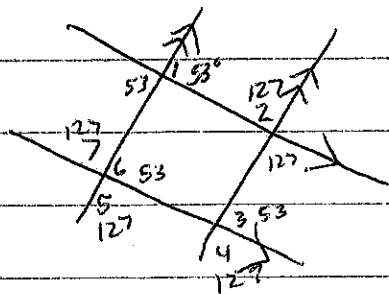
$5 = \frac{3}{2}(2) + b$

16. 127

$2 = b$

$y = \frac{3}{2}x + 2$

17. 53



18. 127

19. 127

20. 53

21. 127

22. $3a + 40 + 2a + 25 = 180$

$5b - 26 = 109$

$5a + 65 = 180$

$5b = 135$

$5a = 115$

$b = 27$

$a = 23$

$mcd = 3(23) + 40 = 109$

$$(2, -4)$$

$$32. y = -\frac{3}{2}x + b$$

$$-4 = -\frac{3}{2}(2) + b$$

$$+3 \quad +3$$

$$-1 = b$$

$$y = -\frac{3}{2}x - 1$$

$$(3, -1) \quad (-4, 6)$$

$$34. m = \frac{6 - (-1)}{-4 - 3} = \frac{7}{-7} = -1$$

$$y = -x + b$$

$$6 = -(-4) + b$$

$$4 + b$$

$$2 = b$$

$$y = -x + 2$$

$$35. \overleftrightarrow{AL} \parallel \overleftrightarrow{KB} \text{ alt ext}$$

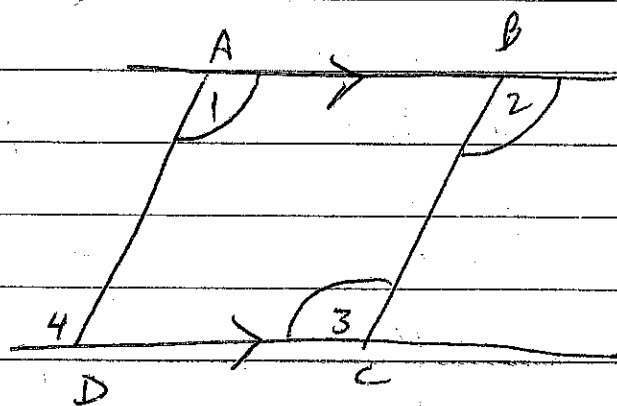
$$36. \overleftrightarrow{AL} \parallel \overleftrightarrow{KB} \text{ s-side int}$$

$$37. \overleftrightarrow{CF} \parallel \overleftrightarrow{GK} \text{ 2 lines } \perp \text{ to same line}$$

$$38. \overleftrightarrow{AL} \parallel \overleftrightarrow{KB} \text{ alt int}$$

$$39. \overleftrightarrow{CF} \parallel \overleftrightarrow{GK} \text{ s-side int}$$

$$40. \overleftrightarrow{CF} \parallel \overleftrightarrow{GK} \text{ corr. } \angle s$$



p784

$$\#16 \angle 1 \cong \angle 3$$

$$G: \overline{AB} \parallel \overline{DC}$$

$$P: \overline{BC} \parallel \overline{AD}$$

Statements
① $\angle 1 \cong \angle 3; \overline{AB} \parallel \overline{DC}$

$$\textcircled{2} \angle 3 \cong \angle 2$$

$$\textcircled{3} \angle 1 \cong \angle 2$$

$$\textcircled{4} \overline{BC} \parallel \overline{AD}$$

Reasons

① Given

② If \parallel , alt int $\angle s \cong$

③ Transitive

④ If corr $\angle s \cong$, then the lines \parallel .